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Spec changes  
pages 3-7  
JOW/eyor  
12/30/06In the Specification:

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Figure 19a shows the physician's remote controller that has the same functionality inside as the physician's controller but with the addition of communication means such as telemetry or telephone modem;

Figure 19b shows an alternate embodiment of the physician's remote controller implemented by a standard notebook PC.

Figure 19c shows an alternate embodiment of the physician's remote controller implemented by a standard desktop PC.

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An external imager (111) sends an image in the form of electrical signals to the video data processing unit (113). The video data processing unit consists of microprocessor CPU's and associated processing chips including high-speed data signal processing (DSP) chips. This unit can format a grid-like or pixel-like pattern that is sent to the electrodes by way of the telemetry communication subsystems, external telemetry unit (118), and internal telemetry unit in internal implant (121). See Figure 1b. In this embodiment of the retinal color prosthesis (~~Fig. 1b, (121)),~~ these electrodes are incorporated in the internal-to-the eye implanted part 121.

These electrodes, which are part of the internal implant (121), together with the telemetry circuitry (~~124~~) are inside the eye. With other internally implanted electronic circuitry (~~124~~), they cooperate with the electrodes so as to replicate the incoming pattern, in a useable form, for stimulation of the retina so as to reproduce a facsimile perception of the external scene. The eye-motion (112) and head-motion (131) detectors supply information to the video data processing unit (113) to shift the image presented to the retina (120).

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